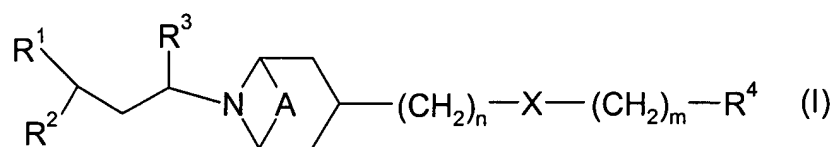


Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A compound of formula (I):



wherein:

A is absent or is (CH<sub>2</sub>)<sub>2</sub>;

R<sup>1</sup> is C<sub>1-8</sub> alkyl, C(O)NR<sup>10</sup>R<sup>11</sup>, C(O)<sub>2</sub>R<sup>12</sup>, NR<sup>13</sup>C(O)R<sup>14</sup>, NR<sup>15</sup>C(O)NR<sup>16</sup>R<sup>17</sup>, NR<sup>18</sup>C(O)<sub>2</sub>R<sup>19</sup>, heterocyclyl, aryl or heteroaryl;

R<sup>10</sup>, R<sup>13</sup>, R<sup>15</sup>, R<sup>16</sup> and R<sup>18</sup> are hydrogen or C<sub>1-6</sub> alkyl;

R<sup>11</sup>, R<sup>12</sup>, R<sup>14</sup>, R<sup>17</sup> and R<sup>19</sup> are C<sub>1-8</sub> alkyl (optionally substituted by halo, hydroxy, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkoxy, C<sub>3-6</sub> cycloalkyl (optionally substituted by halo), C<sub>5-6</sub> cycloalkenyl, S(C<sub>1-4</sub> alkyl), S(O)(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), heteroaryl, aryl, heteroaryloxy or aryloxy), aryl, heteroaryl, C<sub>3-7</sub> cycloalkyl (optionally substituted by halo or C<sub>1-4</sub> alkyl), C<sub>4-7</sub> cycloalkyl fused to a phenyl ring, C<sub>5-7</sub> cycloalkenyl, or, heterocyclyl (itself optionally substituted by oxo, C(O)(C<sub>1-6</sub> alkyl), S(O)<sub>k</sub>(C<sub>1-6</sub> alkyl), halo or C<sub>1-4</sub> alkyl); or R<sup>11</sup>, R<sup>12</sup>, R<sup>14</sup> and R<sup>17</sup> can also be hydrogen;

or R<sup>10</sup> and R<sup>11</sup>, and/or R<sup>16</sup> and R<sup>17</sup> may join to form a 4-, 5- or 6-membered ring which optionally includes a nitrogen, oxygen or sulphur atom, said ring being optionally substituted by C<sub>1-6</sub> alkyl, S(O)<sub>i</sub>(C<sub>1-6</sub> alkyl) or C(O)(C<sub>1-6</sub> alkyl);

R<sup>2</sup> is C<sub>1-6</sub> alkyl, phenyl, heteroaryl or C<sub>3-7</sub> cycloalkyl;

R<sup>3</sup> is H or C<sub>1-4</sub> alkyl;

R<sup>4</sup> is aryl, heteroaryl, C<sub>1-6</sub> alkyl or C<sub>3-7</sub> cycloalkyl;

X is O or S(O)<sub>p</sub>;

m and n are, independently, 0, 1, 2 or 3, provided m + n is 1 or more;

aryl, phenyl and heteroaryl moieties are independently optionally substituted by one or more of halo, cyano, nitro, hydroxy,  $\text{OC(O)NR}^{20}\text{R}^{21}$ ,  $\text{NR}^{22}\text{R}^{23}$ ,  $\text{NR}^{24}\text{C(O)R}^{25}$ ,  $\text{NR}^{26}\text{C(O)NR}^{27}\text{R}^{28}$ ,  $\text{S(O)}_2\text{NR}^{29}\text{R}^{30}$ ,  $\text{NR}^{31}\text{S(O)}_2\text{R}^{32}$ ,  $\text{C(O)NR}^{33}\text{R}^{34}$ ,  $\text{CO}_2\text{R}^{36}$ ,  $\text{NR}^{37}\text{CO}_2\text{R}^{38}$ ,  $\text{S(O)}_q\text{R}^{39}$ ,  $\text{OS(O)}_2\text{R}^{49}$ ,  $\text{C}_{1-6}$  alkyl (optionally mono-substituted by  $\text{S(O)}_2\text{R}^{50}$  or  $\text{C(O)NR}^{51}\text{R}^{52}$ ),  $\text{C}_{2-6}$  alkenyl,  $\text{C}_{2-6}$  alkynyl,  $\text{C}_{3-10}$  cycloalkyl,  $\text{C}_{1-6}$  haloalkyl,  $\text{C}_{1-6}$  alkoxy( $\text{C}_{1-6}$ )alkyl,  $\text{C}_{1-6}$  alkoxy (optionally mono-substituted by  $\text{CO}_2\text{R}^{53}$ ,  $\text{C(O)NR}^{54}\text{R}^{55}$ , cyano, heteroaryl or  $\text{C(O)NHS(O)}_2\text{R}^{56}$ ),  $\text{NHC(O)NHR}^{57}$ ,  $\text{C}_{1-6}$  haloalkoxy, phenyl, phenyl( $\text{C}_{1-4}$ )alkyl, phenoxy, phenylthio, phenylS(O), phenylS(O)<sub>2</sub>, phenyl( $\text{C}_{1-4}$ )alkoxy, heteroaryl, heteroaryl( $\text{C}_{1-4}$ )alkyl, heteroaryloxy or heteroaryl( $\text{C}_{1-4}$ )alkoxy; wherein any of the immediately foregoing phenyl and heteroaryl moieties are optionally substituted with halo, hydroxy, nitro, S( $\text{C}_{1-4}$  alkyl), S(O)( $\text{C}_{1-4}$  alkyl),  $\text{S(O)}_2(\text{C}_{1-4}$  alkyl),  $\text{S(O)}_2\text{NH}_2$ ,  $\text{S(O)}_2\text{NH}(\text{C}_{1-4}$  alkyl),  $\text{S(O)}_2\text{N}(\text{C}_{1-4}$  alkyl)<sub>2</sub>, cyano,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  alkoxy,  $\text{C(O)NH}_2$ ,  $\text{C(O)NH}(\text{C}_{1-4}$  alkyl),  $\text{C(O)N}(\text{C}_{1-4}$  alkyl)<sub>2</sub>,  $\text{CO}_2\text{H}$ ,  $\text{CO}_2(\text{C}_{1-4}$  alkyl),  $\text{NHC(O)}(\text{C}_{1-4}$  alkyl),  $\text{NHS(O)}_2(\text{C}_{1-4}$  alkyl),  $\text{CF}_3$  or  $\text{OCF}_3$ ;

unless otherwise stated heterocyclyl is optionally substituted by  $\text{C}_{1-6}$  alkyl [optionally substituted by phenyl {which itself optionally substituted by halo,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  alkoxy, cyano, nitro,  $\text{CF}_3$ ,  $\text{OCF}_3$ , ( $\text{C}_{1-4}$  alkyl) $\text{C(O)NH}$ ,  $\text{S(O)}_2\text{NH}_2$ ,  $\text{C}_{1-4}$  alkylthio, S(O)( $\text{C}_{1-4}$  alkyl) or  $\text{S(O)}_2(\text{C}_{1-4}$  alkyl)} or heteroaryl {which itself optionally substituted by halo,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  alkoxy, cyano, nitro,  $\text{CF}_3$ , ( $\text{C}_{1-4}$  alkyl) $\text{C(O)NH}$ ,  $\text{S(O)}_2\text{NH}_2$ ,  $\text{C}_{1-4}$  alkylthio, S(O)( $\text{C}_{1-4}$  alkyl) or  $\text{S(O)}_2(\text{C}_{1-4}$  alkyl)}], phenyl {optionally substituted by halo,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  alkoxy, cyano, nitro,  $\text{CF}_3$ ,  $\text{OCF}_3$ , ( $\text{C}_{1-4}$  alkyl) $\text{C(O)NH}$ ,  $\text{S(O)}_2\text{NH}_2$ ,  $\text{C}_{1-4}$  alkylthio, S(O)( $\text{C}_{1-4}$  alkyl) or  $\text{S(O)}_2(\text{C}_{1-4}$  alkyl)}, heteroaryl {optionally substituted by halo,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  alkoxy, cyano, nitro,  $\text{CF}_3$ , ( $\text{C}_{1-4}$  alkyl) $\text{C(O)NH}$ ,  $\text{S(O)}_2\text{NH}_2$ ,  $\text{C}_{1-4}$  alkylthio, S(O)( $\text{C}_{1-4}$  alkyl) or  $\text{S(O)}_2(\text{C}_{1-4}$  alkyl)},  $\text{S(O)}_2\text{NR}^{40}\text{R}^{41}$ ,  $\text{C(O)R}^{42}$ ,  $\text{C(O)}_2(\text{C}_{1-6}$  alkyl) (~~such as *tert*-butoxycarbonyl~~),  $\text{C(O)}_2(\text{phenyl}(\text{C}_{1-2}$  alkyl)) (~~such as benzyloxycarbonyl~~),  $\text{C(O)NHR}^{43}$ ,  $\text{S(O)}_2\text{R}^{44}$ ,  $\text{NHS(O)}_2\text{NHR}^{45}$ ,  $\text{NHC(O)R}^{46}$ ,  $\text{NHC(O)NHR}^{47}$  or  $\text{NHS(O)}_2\text{R}^{48}$ , provided none of these last four substituents is linked to a ring nitrogen;

k, l, p and q are, independently, 0, 1 or 2;

$\text{R}^{20}$ ,  $\text{R}^{22}$ ,  $\text{R}^{24}$ ,  $\text{R}^{26}$ ,  $\text{R}^{27}$ ,  $\text{R}^{29}$ ,  $\text{R}^{31}$ ,  $\text{R}^{33}$ ,  $\text{R}^{37}$ ,  $\text{R}^{40}$ ,  $\text{R}^{51}$  and  $\text{R}^{54}$  are, independently, hydrogen or  $\text{C}_{1-6}$  alkyl;

$R^{21}, R^{23}, R^{25}, R^{28}, R^{30}, R^{32}, R^{34}, R^{36}, R^{38}, R^{39}, R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{52}, R^{53}, R^{55}, R^{56}$  and  $R^{57}$  are, independently,  $C_{1-6}$  alkyl (optionally substituted by halo, hydroxy,  $C_{1-6}$  alkoxy,  $C_{1-6}$  haloalkoxy,  $C_{3-6}$  cycloalkyl,  $C_{5-6}$  cycloalkenyl,  $S(C_{1-4}$  alkyl),  $S(O)(C_{1-4}$  alkyl),  $S(O)_2(C_{1-4}$  alkyl), heteroaryl, phenyl, heteroaryloxy or phenyloxy),  $C_{3-7}$  cycloalkyl, phenyl or heteroaryl; wherein any of the immediately foregoing phenyl and heteroaryl moieties are optionally substituted with halo, hydroxy, nitro,  $S(C_{1-4}$  alkyl),  $S(O)(C_{1-4}$  alkyl),  $S(O)_2(C_{1-4}$  alkyl),  $S(O)_2NH_2$ ,  $S(O)_2NH(C_{1-4}$  alkyl),  $S(O)_2N(C_{1-4}$  alkyl)<sub>2</sub>, cyano,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy,  $C(O)NH_2$ ,  $C(O)NH(C_{1-4}$  alkyl),  $C(O)N(C_{1-4}$  alkyl)<sub>2</sub>,  $CO_2H$ ,  $CO_2(C_{1-4}$  alkyl),  $NHC(O)(C_{1-4}$  alkyl),  $NHS(O)_2(C_{1-4}$  alkyl),  $C(O)(C_{1-4}$  alkyl),  $CF_3$  or  $OCF_3$ ; and

$R^{21}, R^{23}, R^{25}, R^{28}, R^{30}, R^{34}, [[R^{35}],] R^{36}, R^{41}, R^{42}, R^{43}, R^{45}, R^{46}, R^{47}, R^{52}, R^{53}, R^{55}$  and  $R^{57}$  may additionally be hydrogen;

or a pharmaceutically acceptable salt thereof or a solvate thereof.

2. (Original) A compound as claimed in claim 1 wherein  $R^1$  is  $NHC(O)R^{14}$ , phenyl or heterocyclyl, wherein  $R^{14}$  is as defined in claim 1, and phenyl and heterocyclyl are optionally substituted as described in claim 1.

3. (Currently Amended) A compound as claimed in claim 1, [[or 2]] wherein  $R^2$  is phenyl or heteroaryl, either of which is optionally substituted by halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy,  $S(O)_n(C_{1-4}$  alkyl), nitro, cyano or  $CF_3$ ; wherein  $n$  is 0, 1 or 2.

4. (Currently Amended) A compound as claimed in claim 1, [[2 or 3]] wherein  $R^3$  is hydrogen.

5. (Currently Amended) A compound as claimed in claim 1, ~~2, 3 or 4~~ wherein  $R^4$  is phenyl optionally substituted by one or more of halo, hydroxy, nitro,  $S(C_{1-6}$  alkyl),  $S(O)(C_{1-6}$  alkyl),  $S(O)_2(C_{1-6}$  alkyl),  $S(O)_2NH_2$ ,  $S(O)_2NH(C_{1-6}$  alkyl),  $S(O)_2N(C_{1-6}$  alkyl)<sub>2</sub>, cyano,  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy,  $CH_2S(O)_2(C_{1-6}$  alkyl),  $OS(O)_2(C_{1-6}$  alkyl),  $OCH_2$ heteroaryl,  $OCH_2CO_2H$ ,

OCH<sub>2</sub>CO<sub>2</sub>(C<sub>1-6</sub> alkyl), OCH<sub>2</sub>C(O)NH<sub>2</sub>, OCH<sub>2</sub>C(O)NH(C<sub>1-6</sub> alkyl), OCH<sub>2</sub>CN, NH<sub>2</sub>, NH(C<sub>1-6</sub> alkyl), N(C<sub>1-6</sub> alkyl)<sub>2</sub>, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-6</sub> alkyl), C(O)N(C<sub>1-6</sub> alkyl)<sub>2</sub>, CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-6</sub> alkyl), NHC(O)(C<sub>1-6</sub> alkyl), NHC(O)O(C<sub>1-6</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-6</sub> alkyl), CF<sub>3</sub>, CHF<sub>2</sub>, CH<sub>2</sub>F, CH<sub>2</sub>CF<sub>3</sub>, OCF<sub>3</sub>, heteroaryl or heteroaryl(C<sub>1-4</sub> alkyl); wherein the foregoing heteroaryl groups are optionally substituted by halo, hydroxy, nitro, S(C<sub>1-4</sub> alkyl), S(O)(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>NH<sub>2</sub>, S(O)<sub>2</sub>NH(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>N(C<sub>1-4</sub> alkyl)<sub>2</sub>, cyano, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub>, CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>.

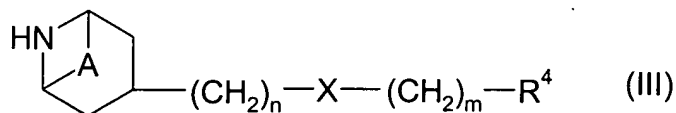
6. (Currently Amended) A compound as claimed in claim 1, ~~2, 3, 4 or 5~~ wherein A is absent.

7. (Currently Amended) A compound as claimed in ~~any one of the preceding claims~~ claim 1, wherein n is 2.

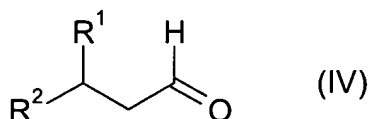
8. (Currently Amended) A compound as claimed in ~~any one of the preceding claims~~ claim 1, wherein m is 0.

9. (Currently Amended) A compound as claimed in ~~any one of the preceding claims~~ claim 1, wherein X is S(O)<sub>2</sub>.

10. (Original) A process for preparing of a compound as claimed in claim 1 comprising:  
a. to prepare a compound wherein R<sup>3</sup> is hydrogen, coupling a compound of formula (III):

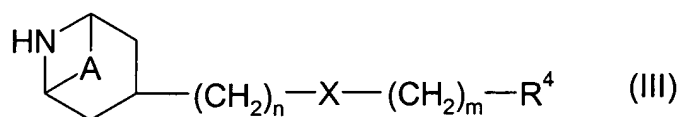


wherein R<sup>4</sup>, m, n, A and X are as defined in claim 1, with a compound of formula (IV):

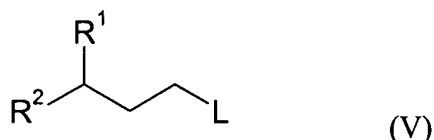


wherein  $R^1$  and  $R^2$  are as defined in claim 1, in the presence of  $\text{NaBH}(\text{OAc})_3$  (wherein Ac is  $\text{C}(\text{O})\text{CH}_3$ ) in a suitable solvent at room temperature;

b. to prepare a compound wherein  $R^3$  is hydrogen, coupling a compound of formula (III):



wherein  $R^4$ , m, n, A and X are as defined in claim 1, with a compound of formula (V):



wherein  $R^1$  and  $R^2$  are as defined in claim 1 and L is a leaving group, in the presence of a base, in a suitable solvent at a temperature from  $60^\circ\text{C}$  to the boiling point of the solvent.

11. (Original) A pharmaceutical composition which comprises a compound as claimed in claim 1, or a pharmaceutically acceptable salt thereof or solvate thereof, and a pharmaceutically acceptable adjuvant, diluent or carrier.

12. (Cancelled)

13. (Cancelled)

14. (Original) A method of treating a CCR5 mediated disease state comprising administering to a patient in need of such treatment an effective amount of a compound as claimed in claim 1, or a pharmaceutically acceptable salt thereof or solvate thereof.

15. (New) A compound as claimed in claim 2, wherein  $R^2$  is phenyl or heteroaryl, either of which is optionally substituted by halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy,  $S(O)_n(C_{1-4}$  alkyl), nitro, cyano or  $CF_3$ ; wherein n is 0, 1 or 2.

16. (New) A compound as claimed in claim 2, wherein  $R^3$  is hydrogen.

17. (New) A compound as claimed in claim 2, wherein  $R^4$  is phenyl optionally substituted by one or more of halo, hydroxy, nitro,  $S(C_{1-6}$  alkyl),  $S(O)(C_{1-6}$  alkyl),  $S(O)_2(C_{1-6}$  alkyl),  $S(O)_2NH_2$ ,  $S(O)_2NH(C_{1-6}$  alkyl),  $S(O)_2N(C_{1-6}$  alkyl)<sub>2</sub>, cyano,  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy,  $CH_2S(O)_2(C_{1-6}$  alkyl),  $OS(O)_2(C_{1-6}$  alkyl),  $OCH_2$ heteroaryl,  $OCH_2CO_2H$ ,  $OCH_2CO_2(C_{1-6}$  alkyl),  $OCH_2C(O)NH_2$ ,  $OCH_2C(O)NH(C_{1-6}$  alkyl),  $OCH_2CN$ ,  $NH_2$ ,  $NH(C_{1-6}$  alkyl),  $N(C_{1-6}$  alkyl)<sub>2</sub>,  $C(O)NH_2$ ,  $C(O)NH(C_{1-6}$  alkyl),  $C(O)N(C_{1-6}$  alkyl)<sub>2</sub>,  $CO_2H$ ,  $CO_2(C_{1-6}$  alkyl),  $NHC(O)(C_{1-6}$  alkyl),  $NHC(O)O(C_{1-6}$  alkyl),  $NHS(O)_2(C_{1-6}$  alkyl),  $CF_3$ ,  $CHF_2$ ,  $CH_2F$ ,  $CH_2CF_3$ ,  $OCF_3$ , heteroaryl or heteroaryl( $C_{1-4}$  alkyl); wherein the foregoing heteroaryl groups are optionally substituted by halo, hydroxy, nitro,  $S(C_{1-4}$  alkyl),  $S(O)(C_{1-4}$  alkyl),  $S(O)_2(C_{1-4}$  alkyl),  $S(O)_2NH_2$ ,  $S(O)_2NH(C_{1-4}$  alkyl),  $S(O)_2N(C_{1-4}$  alkyl)<sub>2</sub>, cyano,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy,  $C(O)NH_2$ ,  $C(O)NH(C_{1-4}$  alkyl),  $C(O)N(C_{1-4}$  alkyl)<sub>2</sub>,  $CO_2H$ ,  $CO_2(C_{1-4}$  alkyl),  $NHC(O)(C_{1-4}$  alkyl),  $NHS(O)_2(C_{1-4}$  alkyl),  $CF_3$  or  $OCF_3$ .

18. (New) A compound as claimed in claim 2, wherein A is absent.

19. (Currently Amended) A compound as claimed in claim 2, wherein n is 2.

20. (Currently Amended) A compound as claimed in claim 2, wherein m is 0.